

Hydrologic Model Manager

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| Short Name | IHW-III |
| Long Name | Illinois Hydrodynamic Watershed Model III |
| Description | |
| Model Type | IHW-III is an event-based two-dimensional catchment runoff model |
| Model Objectives | To provide high accuracy simulation of 2-D catchment runoff |
| Agency Office | V.T. Chow Hydrosystems Lab, University of Illinois at Urbana-Champaign |
| Tech Contact | Model developed by V.T. Chow and A. Ben-Zvi, Contact Dr. Ben C. Yen, Dept. of Civil and Environmental Engineering, University of Illinois, 205 N. Mathews Ave. Urbana, IL 61801, Fax: (217) 333-0687 |
| Model Structure | 2-D Saint-Venant equations solved by a variation of Lax-Wendroff's numerical scheme. |
| Interception | |
| Groundwater | |
| Snowmelt | |
| Precipitation | |
| Evapo-transpiration | |
| Infiltration | |
| Model Paramters | |
| Spatial Scale | Simplified overland surfaces and channel |
| Temporal Scale | Single event |
| Input Requirements | |
| Computer Requirements | |
| Model Output | Runoff hydrographs, depth and velocity of flow in watershed |
| Parameter Estimatr Model Calibrtn | |
| Model Testing Verification | Verified with experimental data |
| Model Sensitivity | |
| Model Reliabiity | |
| Model Application | |
| Documentation | Chow, V.T. and Ben-Zvi, A., "The Illinois Hydrodynamic Watershed Model III (IHW-III)," Civil Eng. Studies Hydraulic Eng. Series 26, University of Illinois at Urbana-Champaign, September 1973. |
| Other Comments | This is the first successful two-dimensional numerical watershed model |
| Date of Submission | 5/1/2001 1:42:25 PM |
| Developer | |
| Technical Contact | |
| Contact Organization | |